



# PRODUCT INFORMATION

## BROCHURE

1.5D

# HYDROMITE 600 SERIES



**Hydromite 600 Series** is a booster-sensitive emulsion explosive with a putty-like texture.

### ADVANTAGES

- Good borehole coupling characteristics when cartridges are cut
- Exhibits excellent water resistance
- Superior resistance to dynamic pre-compression from adjacent boreholes

## PRODUCT OVERVIEW

### TECHNICAL DESCRIPTION

Hydromite 610 is a thickened emulsion explosive product packaged in tough plastic film cartridges.

Hydromite 611 an emulsion explosive with a putty-like texture packaged in Woven Poly Plastic (WPP) cartridges.

### APPLICATION RECOMMENDATIONS

Hydromite 600 Series products are an ideal column load option for blasting applications where the use of bulk blasting agents may not be practical or economical.

### PRIMING

Hydromite 600 Series products must be in direct contact with a minimum of a 1/3 lb cast booster. Depending on borehole and geologic conditions, additional primers may be required.

## PROPERTIES

| Properties   | Hydromite 610 | Hydromite 611 |        |
|--|---------------|---------------|--------|
| Density [g/cc]   | 1.21          | 1.20          |        |
| Oxygen Balance [%] <sup>(1)</sup>                                      | -3.0          | -9.3          |        |
| Gas Volume [l/kg]  | 1,092         | 1,102         |        |
| Relative Weight Strength [ANFO=100] <sup>(1)</sup>                     | 91            | 89            |        |
| Relative Bulk Strength [ANFO=0.82 g/cm <sup>3</sup> ] <sup>(1) ‡</sup> | 134           | 130           |        |
| Heat of Explosion  | 1,962         | 1,904         |        |
| Detonation Pressure  | 97            | 98            |        |
| Fume Class   | 1             | 1             |        |
| Velocity of detonation (confined) <sup>(2)</sup>                       | [ft/s]        | 19,871        | 19,931 |
|  | [m/s]         | 6,057         | 6,075  |

Notes:

(1) Theoretical values based on Austin modeling which assumes ideal detonation. Values calculated with other codes may differ.

(2) The velocity of detonation will depend on application, diameter and confinement.

‡ Energy values are calculated using Expl 5, a thermo-dynamic computer code employed by Austin Powder Company. Other computer codes may give different values. ANFO = 100 @ 0.82 g/cc.

## STANDARD PACKAGING

| Cartridge Type            | Cartridge Size |            | Cartridge Weight |       | Case Count |
|---------------------------|----------------|------------|------------------|-------|------------|
|                           | [in]           | [mm]       | [lb]             | [kg]  | #          |
| Plastic Film              | 2 x 16         | 50 x 400   | 2.38             | 1.08  | 21         |
|                           | 2 ½ x 16       | 63 x 400   | 3.33             | 1.51  | 15         |
| Woven Polypropylene (WPP) | 4 x 20         | 102 - 1219 | 20               | 9.07  | 100        |
|                           | 4.5 x 30       | 114 x 1473 | 30               | 13.61 | 70         |

Notes:

All dimensions and weights are nominal. Other sizes are available upon request

## STANDARD TECHNICAL DESCRIPTION

Booster-sensitive emulsion/ANFO blend

### SHELF LIFE, STORAGE & DISPOSAL

- Store in accordance with all applicable local, state, provincial, and federal laws.
- The disposal of explosives needs to comply with local and national laws. Contact Austin Powder with disposal questions.
- One year from the date of manufacture under good storage conditions.

### TRANSPORT - UN CLASSIFICATION

Shipping Name: Explosive, Blasting, Type E  
 Class & Division: 1.5D  
 ID Number: UN0332

### US DOT REFERENCE NUMBER

EX-1993050178 Hydromite 610  
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**Our Mission is to improve the world we live in through the safe and responsible use of explosives.**